

Alignment of SDG
w/ Wallach AA

DR MPI; 1999-070258/06.
DR N-PSDB; AAX02558.
XX
XX New B1 protein regulates cell death and cell survival pathways -
PT derivatives, DNA and antibodies, also regulate intracellular inflammation
PT ; for treating AIDS, cancer.
XX
PS Claim 4; Fig 3A; 90pp; English.

Query Match	97.8%;	Score 227;	DB 2;	length 540;
Best Local Similarity	100.0%;	Pred. No. 1e-221;		
Matches 227;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY	6	LOSVSASHLCPKKKMEI LINI PVNHGPOEECSGSLHENS GSPETSSLPAPQND FL	65
Db	314	LOSVSASHLCPKKKMEI LINI PVNHGPOEECSGSLHENS GSPETSSLPAPQND FL	373
QY	66	SRKADCFYMLKHHCPGNHWS DSTISGSORAAFCDHKTIPCSAIIINPLSTAGNSRLQ P	125
Db	374	SRKADCFYMLKHHCPGNHWS DSTISGSORAAFCDHKTIPCSAIIINPLSTAGNSRLQ P	433
QY	126	GIAQWIOSKREDIYNOMTEACINLSDIALLSRDIIMEDYELVSVKPRTRISKVRQLDT	185
Db	434	GIAQWIOSKREDIYNOMTEACINLSDIALLSRDIIMEDYELVSVKPRTRISKVRQLDT	493
QY	186	TDIOSEERAKYIVOKLKNKQMGLOPYEIIIVSVRSPSILNLIKNSM	232
Db	494	TDIOSEERAKYIVOKLKNKQMGLOPYEIIIVSVRSPSILNLIKNSM	540

Alignment of SID2
w/ Wallack AA

AAW92795
ID AAW92795 standard; protein; 540 AA.
XX
AC AAW92795;
XX 07-MAY-1999 (first entry)
XX
DE Human B1 protein.
XX
KW B1 protein; intracellular mediator; modulator; inflammation; cell death;
cell survival pathway; intracellular signalling; AIDS; cancer; human.
XX
OS Homo sapiens.
XX MO985507-A2.
XX 10-DEC-1998.
XX 01-JUN-1998; 98WO-IL000255.
XX 05-JUN-1997; 97IL-00121011.
XX 30-JUN-1997; 97IL-00121199.
XX 11-SEP-1997; 97IL-00121746.
XX (YEDA) YEDA RES & DEV CO LTD.
XX Wallack D, Boldin M, Malinin N;
XX WPI, 1999-070258/06.
XX N-PSDB; AAX02358.
XX
XX New B1 protein regulates cell death and cell survival pathways -
PT derivatives, DNA and antibodies, also regulate intracellular inflammation
PT ; for treating AIDS, cancer.
XX
XX Claim 4; Fig 3A; 90pp; English.
XX
XX This invention describes the isolation of a novel human B1 protein which
can interact with, intracellular mediators or modulators of inflammation,
cell death and/or cell survival pathways, directly or indirectly. Cells
can be modulated or mediated in inflammation, cell death or cell survival
pathways or another intracellular signalling activity using B1.
XX Conditions such as AIDS and cancer can be treated using B1. Antibodies,
oligonucleotides and ribozymes can also be used to regulate the above
pathways

Pred. No.: 2,866-237 Length: 540
Score: 227.00 Matches: 227
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 42.75% Indels: 0
DB: 2 Gaps: 0

US-09-771-161A-2 (1-1669) x AAW92795 (1-540)

QY 335 TTACAGAGGTTCACAGTCCCTTACCTATGTCACAGAGAAATGGAATTTCTG 394
DB 314 LeuGlnSerValSerSerAlaIleHISLeuCyAspLysLysLysMetGluLeuSerLeu 333
QY 395 AACATACCTGTAATCATGTCACAGAGAAATCATGTCATCTCCAGCTCCATGAA 454
DB 334 AsnIleProValAsnHisGlyProGlnGlnGlnSerCysGlySerSerGlnLeuHisGln 353
QY 455 AATAGTGTTCCTCGAAACCTCAAGGTCCTCCAGCTCTCAAGACATGATTTTAA 514
DB 354 AsnSerGlySerProGlnThrSerAlaIleProAlaProGlnAspAsnAspPheLeu 373
QY 515 TCTAGAAAGCTCAAGACCTGTTATTTATGAAGCTGCATCAGCTGCTGGAATTCAGT 574
DB 374 SerArgLysAlaGlnAspCysTyrPheMetLysLeuHisCysProGlnAsnHisSer 393
QY 575 TGAGATAGCAGCATTCTGATCTCAAGAGGCTGCAATTCGTGATCACAAGCACTCA 634
DB 394 TrpAspSerThrIleSerGlySerGlnArgAlaIlePheCysAspHisLysThrThrPro 413
QY 635 TGCTCTTCAGCAATTAATCACTCACTCACTGACAGAAATCAAGCTCTGACGCT 694
DB 414 CysSerSerAlaIleIleAsnProLeuSerThrAlaGlyAsnSerGlnArgLeuGlnPro 433
QY 695 GGATATAGCCAGAGAGGATCCAGACCAAGCAAGCAATGTTGTAACCAATGACAGAA 754
DB 434 GlyIleAlaGlnSlnThrIleGlnSerLysArgGluAspIleValAsnGlnMetThrGln 453
QY 755 GCCTGCTTAACCAAGTGGTGAATGCTTCTGTGTCAGGACCTGATCAATGAAGAGAC 814
DB 454 AlaCysLeuAsnGlnSerLeuAspAlaLeuLeuSerArgAspLeuIleMetLysGluAsp 473
QY 815 TATGAACCTGTAGTACCAAGCTCAAGAGCCTCAAGCAATTAATTAATCAAGCACT 874
DB 474 TyrGlnLeuValSerThrLysProThrArgThrSerLysValArgGlnLeuLeuAspThr 493
QY 875 ACTGATCCCAAGAGAAATTTGCCAAAGTATAGTACAAAATTTGAAGATAACAA 934
DB 494 ThrAspIleGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGlnGln 513
QY 935 CAATGAGGCTTCAGCCTTAACCCGAAATACCTTGAGTTCTTGATCACCATTCTTAAT 994
DB 514 GlnMetGlyLeuGlnProTyrProGlnIleLeuValValSerArgSerProSerLeuAsn 533
QY 995 TTACTTCAAAATTAAGCATG 1015
DB 534 LeuLeuGlnAsnLysSerMet 540

RESULT 5

AAV68774

ID AAV68774 standard; protein; 540 AA.

AC AAV68774;
DT 16-MAY-2000 (first entry)

DE Amino acid sequence of a human phosphorylation effector PHSP-6.

XX Human; phosphorylation effector; PHSP; proliferative disorder;
XX immune disorder; neuronal disorder.

XX Homo sapiens.

XX Key Location/Qualifiers

Alignment of
SID 2 w/ Wallchart of
NT

cirrhosis, hepatitis and cancer, developmental disorders e.g., mental retardation, neurological disorders including Alzheimer's disease and Parkinson's disease, autoimmune and inflammatory disorders such as Crohn's disease and diabetes mellitus and finally, viral, bacterial, fungal, parasitic, protozoan or helminthic infections. Furthermore, polynucleotides encoding KPP may be useful for creating transgenic animals to model human disease, as well as during gene therapy procedures. The current sequences is that of the human KPP cDNA of the invention.

Sequence 1959 BP; 597 A; 430 ~~C~~; 420 G; 512 T; 0 U; 0 Other;

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Query Match      47.0% ; Score 785; DB 9; Length 1959;
Best Local Similarity 100.0% ; Pred. No. 0;
Matches 785; Conservative 0; Mismatches 0; Indels 0; Gaps 0

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423 AGGAATCATGTGGATCTCTCAGCTCCATGAATAATAGTGGTCTCTCTGAACTTCAAGT 482

XX	RESULT 8
XX	AAx02558
ID	AAx02558 standard; cDNA, 2098 BP.
XX	AAx02558;
AC	
XX	
D7	07-MAY-1999 (first entry)
XX	
DE	Human B1 cDNA.
XX	
KW	B1 protein; intracellular mediator; modulator; inflammation; cell survival pathway; intracellular signaling; AIDS; cancer; AIDS
XX	
OS	Homo sapiens.
XX	
PN	W09855507-A2.
XX	

PD 10-DEC-1998.
 XX 01-JUN-1998; 98W0-IL000255.
 XX 05-JUN-1997; 97IL-00121011.
 PR 30-JUN-1997; 97IL-00121199.
 PR 11-SEP-1997; 97IL-00121746.
 XX (YEDA) YEDA RES & DEV CO LTD.
 PI Wallach D, Boldin M, Malinin N;
 XX WPI: 1999-070258/06.
 DR F-PSDB; AAW92795.
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 PT derivatives, DNA and antibodies, also regulate intracellular inflammation
 PT ; for treating AIDS, cancer.
 XX
 PS Claim 4; Fig 3B; 90pp; English.
 CC This invention describes the isolation of a novel human B1 protein which
 CC can interact with intracellular mediators or modulators of inflammation,
 CC cell death and/or cell survival pathways, directly or indirectly. Cells
 CC can be modulated or mediated in inflammation, cell death or cell survival
 CC pathways or another intracellular signalling activity using B1.
 CC Conditions such as AIDS and cancer can be treated using B1. Antibodies,
 CC oligonucleotides and ribozymes can also be used to regulate the above
 CC pathways
 CC
 XX Sequence 2098 BP; 649 A; 452 C; 449 G; 539 T; 0 U; 9 Other;
 SQ

Query Match 46.9% Score 783; DB 2; Length 2098;
 Best local Similarity 100.0%; Pred. No. 0;
 Matches 783; Conservat 0; Mismatches 0; Indels 0; Gaps 0;
 QY 333 AGTTACAGAGGTTTCAAGTCCATTCACCTATGACACAGAGAAATGGAATTATCTC 392
 Db 1197 AGTTACAGAGGTTTCAAGTCCATTCACCTATGACACAGAGAAATGGAATTATCTC 1256
 QY 393 TGAACATACCTGTAAATCATGGTCCACAGAGAAATCATGTGATCCTTCAGCTCCATG 452
 Db 1257 TGAACATACCTGTAAATCATGGTCCACAGAGAAATCATGTGATCCTTCAGCTCCATG 1316
 QY 453 AAAATAGTGTCTCTCTGAACTCAAGTCCCTCCAGCTCTCAAGCAATGATTTT 512
 Db 1317 AAAATAGTGTCTCTCTGAACTCAAGTCCCTCCAGCTCTCAAGCAATGATTTT 1376
 QY 513 TATCTAGAAAGCTCAAGCTTTATTTATGAGCTGCATCATGCTCTGGAATTCACA 572
 Db 1377 TATCTAGAAAGCTCAAGCTTTATTTATGAGCTGCATCATGCTCTGGAATTCACA 1436
 QY 573 GTTGGGATGACACATTTCTGATCTCAAGGCTGCAATTCGTGATCAAGACCATC 632
 Db 1437 GTTGGGATGACACATTTCTGATCTCAAGGCTGCAATTCGTGATCAAGACCATC 1496
 QY 633 CATGCTCTTCAAGCAATTAATTCATCTCAACTGACAGAACTCAGAACTCTGACG 692
 Db 1497 CATGCTCTTCAAGCAATTAATTCATCTCAACTGACAGAACTCAGAACTCTGACG 1556
 QY 693 CTGGTATAGCCGACGAGTGCATCAGAGCAAAAGGAGACATTTGAAACCAATGACAG 752
 Db 1557 CTGGTATAGCCGACGAGTGCATCAGAGCAAAAGGAGACATTTGAAACCAATGACAG 1616
 QY 753 AAGCTGCTTAAACAGTGCATGATGCTCTTCTGTCAGAGGACTTGATCATGAAGAAG 812
 Db 1617 AAGCTGCTTAAACAGTGCATGATGCTCTTCTGTCAGAGGACTTGATCATGAAGAAG 1676
 QY 813 ACTATGAACTTTGATGACCAAGCTTCAAGGACCTCAAAAGTCAGCAATTAAGACA 872
 Db 1677 ACTATGAACTTTGATGACCAAGCTTCAAGGACCTCAAAAGTCAGCAATTAAGACA 1736
 QY 873 CTACTGACATCCAGAGAAATTTGCAAGTTATAGTACAAAATGAAAGATACCA 932

Db 1737 CTACTGACATCCAGAGAAATTTGCAAGTTATAGTACAAAATGAAAGATACCA 1796
 QY 933 AACAAATGGGCTTACGCTTACCCGAAATACCTGGTTCTAGATCCATCTTTAA 992
 Db 1797 AACAAATGGGCTTACGCTTACCCGAAATACCTGGTTCTAGATCCATCTTTAA 1856
 QY 993 ATTACTTCAAAATTAAGCATGTAGTACTGTTTCAAGAAATGTTTCAATA 1052
 Db 1857 ATTACTTCAAAATTAAGCATGTAGTACTGTTTCAAGAAATGTTTCAATA 1916
 QY 1053 AAGGATTTATATCTGTTGCTTGAATTTTATATAAATCCGTGAGTATTAAG 1112
 Db 1917 AAGGATTTATATCTGTTGCTTGAATTTTATATAAATCCGTGAGTATTAAG 1976
 QY 1113 CTT 1115
 Db 1977 CTT 1979

AF027706 w/
Wallach NT

1381 ATCACTGCTCTGGAATTCAGTTGGATAGCACATTTCTGGTCTCAAGGGCTGCAT 1440
1416 ATCACTGCTCTGGAATTCAGTTGGATAGCACATTTCTGGATCTCAAGGGCTGCAT 1475
1441 TCTGTATCAAGAACCACTCCATGCTCTTCAGCAATATTAATCACTCTCAAGCTGCAG 1500
1476 TCTGTATCAAGAACCACTCCATGCTCTTCAGCAATATTAATCACTCTCAAGCTGCAG 1535
1501 GAAACTCAGAACGCTCTGACCTGTATACCCAGCACTGGATCCAGCAAAAGGGAAG 1560
1536 GAAACTCAGAACGCTCTGACCTGTATACCCAGCACTGGATCCAGCAAAAGGGAAG 1595
1561 ACATTTGGAACCAATATGACGAGAGCCCTTACCACTAGTATGATCCCTTCTGTCCA 1620
1596 ACATTTGGAACCAATATGACGAGAGCCCTTACCACTAGTATGATCCCTTCTGTCCA 1655
1621 GGGACTTGATCATGAAAGAGGACTATGAACTTTAGTACCAAGCTTACCAAGGACTCCA 1680
1656 GGGACTTGATCATGAAAGAGGACTATGAACTTTAGTACCAAGGACTCCA 1715
1681 AAGTCAGCAATTACTAGACCTACTGACATCCAAAGGAAATTTGCCAAAGTTATAG 1740
1716 AAGTCAGCAATTACTAGACCTACTGACATCCAAAGGAAATTTGCCAAAGTTATAG 1775
1741 TACAAAATTTGAAAGATACAAACAAATGGGCTTCAAGCTTACCCGAAATATCTTGTG 1800
1776 TACAAAATTTGAAAGATACAAACAAATGGGCTTCAAGCTTACCCGAAATATCTTGTG 1835
1801 TTTCTAGATCACCATCTTTAAATTTACTCTCAAAATTAAGCATGTAAGTACTGTTTTTC 1860
1836 TTTCTAGATCACCATCTTTAAATTTACTCTCAAAATTAAGCATGTAAGTACTGTTTTTC 1895
1861 AAGAAAGAAATGTTTCATTAAGGATATTTATATCTGTTGCTTGACTTTTTTATA 1920
1896 AAGAAAGAAATGTTTCATTAAGGATATTTATATCTGTTGCTTGACTTTTTTATA 1955
1921 TAAATCCGAGTATTAAGCTTTATGAGGTTCTTTGGTAAATTTAGTCTCCTC 1980
1956 TAAATCCGAGTATTAAGCTTTATGAGGTTCTTTGGTAAATTTAGTCTCCTC 2015
1981 CATGACCTGAGTATTTTAAATTAATTAACAAGTAAAGTTGAATTTG 2031
2016 CATGACCTGAGTATTTTAAATTAATTAACAAGTAAAGTTGAATTTG 2066

RESULT 3

AAZ09246
ID AAZ09246 standard; cDNA, 1931 BP.

XX AAZ09246;

XX 25-OCT-1999 (first entry)

XX Human CARD-3 cDNA.

XX CARD-3; caspase recruitment domain; CARD-4; regulation; detection;
XX caspase activation; detection; screening; therapy; diagnosis; disease;
XX apoptotic cell death; Fas/PO-1 receptor complex; TNF receptor complex;
XX cancer; follicular lymphoma; carcinoma; p53 mutation; viral infection;
XX hormone-dependent tumour; autoimmune disorder; Alzheimer's disease;
XX systemic lupus erythematosus; immune-mediated glomerulonephritis; stroke;
XX Parkinson's disease; amyotrophic lateral sclerosis; retinitis pigmentosa;
XX spinal muscular dystrophy; cerebellar degeneration; anaemia; drug;
XX myelodysplastic syndrome; myocardial infarction; cell proliferation;
XX cell differentiation; cell survival; CARD-4L; CARD-4S; CARD-4V; CARD-4Z;
XX human; ds.

XX Homo. sapiens.

XX Key Location/Qualifiers
XX FH 214..1836
XX CDS /*tag= a